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DATE MAILED: 07/01/2008

# NOTICE OF ALLOWANCE AND FEE(S) DUE

32172 7590 07/01/2008 DICKSTEIN SHAPIRO LLP 1177 AVENUE OF THE AMERICAS (6TH AVENUE) NEW YORK, NY 10036-2714 EXAMINER

CEHIC, KENAN

ART UNIT PAPER NUMBER

2016

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/791,784	03/04/2004	Takahiro Ohkuma	Y0647.0147	5197		
TITLE OF INVENTION: PACKET PROCESSING CIRCUIT						

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	10/01/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

## HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. In equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This f appropriate. All further c indicated unless corrected maintenance fee notification	form should be used for or respondence including below or directed others.	or tran g the erwise	smitting the ISSU Patent, advance or in Block 1, by (a					hould be completed where correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Now: Use Block 1 for any change of address)  Note: A certificate of mailing can only be used for donestic mailing can only be used for donestic mailing can only be used for any other papers. Each additional paper, such as an assignment or formal draw have its own certificate of mailing or mailing or formal draw have its own certificate of mailing or themselves.						or domestic mailings of the for any other accompanying ont or formal drawing, must		
32172 7590 07/01/2008					Cer	tificat	e of Mailing or Trans	mission g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.
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								(Signature)
								(Date)
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nonprovisional	NO		\$1440	\$300	\$0		\$1740	10/01/2008
EXAMI	EXAMINER		ART UNIT	CLASS-SUBCLASS				
CEHIC, K	ENAN		2616	370-503000				
1. Change of correspondence address or indication of Tec Address (27 TeX 1.363).  Change of correspondence address for Change of Correspondence Address from PTOSB/122) attached.  Change of Correspondence address for Change of Correspondence Address from PTOSB/122) attached.  Change of Correspondence address for Change of Correspondence Address from PTOSB/122) attached.  Change of Correspondence address of Indication form with the Correspondence of Correspondence and Correspondence of Correspon								
Please check the appropria	te assignee category or	catego	ries (will not be pr	inted on the patent):	Individual 🚨 Co	orporat	ion or other private gro	oup entity Government
4a. The following fee(s) are submitted:    Issue Fee   Publication Fee (No small entity discount permitted)   Advance Order - # of Copies				o. Payment of Fee(s): (Ple A check is enclosed. Payment by credit cs The Director is hereboverpayment, to Dep	rd. Form PTO-2038	is att	ached. required fee(s), any de	
5. Change in Entity Statu a. Applicant claims	SMALL ENTITY statu	s. See	37 CFR 1.27.	b. Applicant is no lo	nger claiming SMA	LLEN	TITY status. See 37 Cl	FR 1.27(g)(2).
NOTE: The Issue Fee and interest as shown by the re	Publication Fee (if requested States of the United States)	iired) v tes Pat	will not be accepted ent and Trademark	d from anyone other than Office.	the applicant; a regi	stered	attorney or agent; or th	ne assignee or other party in
Authorized Signature					Date			
Typed or printed name					Registration N	lo		
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



# UNITED STATES PATENT AND TRADEMARK OFFICE

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DICKSTEIN S	HAPIRO LLP	CEHIC, KENAN		
1177 AVENUE OF THE AMERICAS (6TH AVENUE)			ART UNIT	PAPER NUMBER
NEW YORK, N	(10036-2714	2616		

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 799 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 799 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Notice of Allowability

Application No.	Applicant(s)
10/791,784	OHKUMA, TAKAHIRO
Examiner	Art Unit
KENAN CEHIC	2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.33 and MPEP 1308.

- This communication is responsive to 06/09/2008.
- 2. The allowed claim(s) is/are 4,5,7, renumbered respectively as 2,3,1.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) 

    All b) 

    Some\* c) 

    None of the:
    - 1. A Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_
    - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDOMMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) hereto or 2) to Paper No./Mail Date \_\_\_\_\_
  - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. 
  Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. Other \_\_\_\_\_.

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Art Unit: 2616

## Reason for Allowance

1. For claim 7, the closes prior art , Takada (US 2003/0110406), discloses a power management system which based on a signal of a circuit, which outputs data to a second circuit (Fig 1; 31), controls the clock supply to the 2nd circuit. However, this signal is a request to send data to the 2nd circuit (Fig 1; 31) and not a signal if data has been output. The next closes prior art Lim et al (US 2004/0160898) discloses a system with shuts off the clock if the macro is processing/is expected to process a packet. However neither by anticipation nor reasonable combination does the prior art teach that the "macro" from which the packet data is outputted includes a 1st and 2nd output signal units nor the oring of the second signal (produced by the second unit), which produces a 1st signal, that is used to turn off the clock supply if the signal indicates no output for a predetermined time. Neither by anticipation nor reasonable combination does the prior art teach the following details of claim 7: "a clock management unit which causes said clock buffer corresponding to said macro to be controlled to stop supplying the clock when no packet data is output for the predetermined time from all the routes of said macro on the input side of said macro to be controlled, wherein

said macro on the input side comprises a first signal output unit which outputs, to said clock management unit, a first packet output notification signal which indicates that the packet data is output, and said clock management unit comprises a packet output detection unit which causes said clock buffer to start supplying the clock when the first packet output notification signal is enabled and stop supplying the clock when the first packet output notification signal is not enabled again within the predetermined time, wherein said macro on the input side comprises a plurality of routes to output the processed packet data, and said first signal output unit outputs, to

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Art Unit: 2616

said clock management unit, a first packet output notification signal which indicates that the packet data is output from at least one of the routes, and wherein said macro on the input side comprises a second signal output unit which outputs, to said first signal output unit for each of the routes, a second packet output notification signal which indicates that the packet data is output, and said first signal output unit comprises a gate circuit which generates the first packet output notification signal by ORing the received second packet output notification signal."

Any inquiry concerning this communication or earlier communications from the
examiner should be directed to KENAN CEHIC whose telephone number is (571)270-3120.
 The examiner can normally be reached on Monday through Friday 8:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, KWANG BIN YAO can be reached on (571) 272-3182. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Art Unit: 2616

/Kenan Cehic/ Examiner, Art Unit 2616

/Kwang B. Yao/

Supervisory Patent Examiner, Art Unit 2616